



Alberta Boilers Safety Association

#200, 4208 - 97 Street

Edmonton, Alberta, Canada T6E 5Z9

Tel: (780) 437-9100 / Fax: (780) 437-7787

February 02, 2004

Tim Hansen
NUSCO SUPPLY & MANUFACTURING INC
MANUFACTURING SHOP
1604-8 STREET
NISKU, AB T9E 7S6

DVN-1014A

A0513022

SAT #8.

6-13-81-5W6 & 8-13-81-

Dear Tim Hansen,

The drawings, specifications and/or information received on January 13, 2004 are accepted for registration as follows:

CRN : R5968.2

Accepted on: February 02, 2004

Tracking No. : 2004-00240

Reg Type : New Design

Drawing No. : D1507-200 Rev 1

Description	Design Pressure	Design Temperature	MDMT
Internal Pressure	9928 kPa	38°C	-29°C

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

Sincerely,

DE LEON, JESUS, P. Eng.
Design Survey Engineer

A513022

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by NUSCO SUPPLY & MANUFACTURING INC., 1604 - 8TH STREET NISKU, ALBERTA CANADA T9E 7S6
(Name and address of manufacturer)

Manufactured for Devon Canada Corporation 1600, 324-8th ave. S.W. Calgary, Alberta T2P 2Z5
(Name and address of purchaser)

3. Location of installation Stock
(Name and address)

4. Type: Vertical Separator 007605-200 R5968.2 D1507-200 Rev.1 2004
(Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing no.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2001
Year

to 2002
Addenda (Date) Code Case Nos. Special Service per UG 120(d)

6. Shell: SA-106 GR B 1.031" 0.125" 16" OD 7'-6"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Type-S Seamless 100% 1150°F 70 min. Type-1 * Full 2
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA-516-70N (b) Matl. SA-516-70N
(Spec No., Grade) (Spec No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	TOP	0.900"	0.125"	-	-	2:1	-	-	-	Concave
(b)	BOTTOM	0.900"	0.125"	-	-	2:1	-	-	-	Concave

If removable, bolts used (describe other fastenings)

(Matl., Spec. No., Gr., Size, No.)

9. MAWP 1440 psi at max. temp. 100 °F
Min. design metal temp. -20 °F at 1440 psi. Hydro. ~~test pressure~~ test pressure 2160 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Inlet, Outlet, LC	4	3"	600# RFWN	SA-105N / SA-106-B	0.600"	N/A	UW-16.1(c)	Shell / Top Head
Drain	1	2"	600# RFWN	SA-105N / SA-106-B	0.344"	N/A	UW-16.1(c)	Bottom Head
Water Outlet	2	2"	600# RFWN	SA-105N / SA-106-B	0.344"	N/A	UW-16.1(c)	Shell
PSHH, TI	2	2"	600# RFWN	SA-105N / SA-106-B	0.344"	N/A	UW-16.1(c)	Shell
HC & Water LG	4	2"	600# RFWN	SA-105N / SA-106-B	0.344"	N/A	UW-16.1(c)	Shell
PSV	1	2"	600# RFWN	SA-105N / SA-106-B	0.344"	N/A	UW-16.1(c)	Shell
Inspection	2	3"	600# RFWN	SA-105N / SA-106-B	0.600"	N/A	UW-16.1(c)	Shell

11. Supports: Skirt Yes Lugs - Legs - Other - Attached Welded to Bottom Head
(Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

(Name of part, item number, Mfr's name and identifying stamp)

-Construction Drawing No. D1507-200 Rev.2 - Impact Testing: No; PER UG-20(f) (1 To 5), UCS-66(a), UCS-66(c)

*-Radiography in accordance with UW-11(a) -Hydrotested Vertically

-Customers responsibility to install adequate pressure relief valve. -Capacity 7.43 Cu. Ft.

CERTIFICATE OF SHOP / FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 24,776 Expires March 27, 2005

Date MAY 7, 2004 Co. Name NUSCO SUPPLY & MANUFACTURING INC. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP / FIELD INSPECTION

Vessel constructed by NUSCO SUPPLY & MANUFACTURING INC. at 1604 - 8TH STREET NISKU, ALBERTA CANADA T9E 7S6

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Alberta and employed by Alberta Boilers Safety Association have inspected

the component described in this Manufacturer's Data Report on MAY 07 2004, and state that, to the best of my knowledge and belief, the

Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date MAY 07 2004 Signed [Signature] Commissions 702 # 1
(Authorized Inspector) (Nat'l Board. (incl. endorsements) State, Prov. and No.)

W
RT-1
HT



CERTIFIED BY

NUSCO

NISKU, ALBERTA, CANADA

MAX. ALLOW
WORK. PRESS.

1440

PSI

AT

100

°F

MIN. DESIGN
METAL TEMP.

-20

°F

AT

1440

PSI

SERIAL
NO.

007605-200

YEAR BUILT

2004

DESIGN
PRESS.

1440

PSI

AT

100

°F

CORR
ALLOW

0.125

IN.

9929

KPA

AT

38

°C

CORR
ALLOW

3.175

MM.

HEAD
MTRL.

SA-516-70N

THK.

0.900

IN.

22.86

MM.

SHELL
MTRL.

SA-106-B

THK.

1.031

IN.

26.19

MM.

CRN.

R5968.2

Nusco 9480



CERTIFIED BY
NUSCO
NISKU
ALBERTA
CANADA

W
RT

MAX. ALLOW
WORK PRESS. 1440 PSI AT 100 °F

MIN. DESIGN
METAL TEMP. -20 °F AT 1440 PSI

SERIAL NO. 017305-2004 YEAR BUILT 2004

DESIGN PRESS. 1440 PSI AT 100 °F CORR ALLOW 0.125 IN.

1029 KPA AT 32 °C 3.175 MM

HEAD MTRL. SA-516-70N THK. 1.000 IN. 25.403 MM

SHELL MTRL. SA-516-70N THK. 1.031 IN. 26.19 MM

CRN. 616022

NUSCO 8410

W
RT-1
HT



CERTIFIED BY

NUSCO

NISKU, ALBERTA, CANADA

MAX. ALLOW
WORK. PRESS.

1440

PSI

AT

100

°F

MIN. DESIGN
METAL TEMP.

-20

°F

AT

1440

PSI

SERIAL
NO.

007605-200

YEAR BUILT

2004

DESIGN
PRESS.

1440

PSI

AT

100

°F

CORR
ALLOW

0.125

IN.

9929

KPA

AT

38

°C

CORR
ALLOW

3.175

MM.

HEAD
MTRL.

SA-516-70N

THK.

0.900

IN.

22.86

MM.

SHELL
MTRL.

SA-106-B

THK.

1.031

IN.

26.19

MM.

CRN.

R5968.2

Nusco 9480

6-13-81-5 W6 SEP.

Vessel Nameplate Data Sheet

LOCATION: 8-13-81-5 W6 M.

PROVINCIAL REGISTRATION #: A 513022

CRN #: R 5968.2

SERIAL #: 007605-200

EQUIPMENT TAG #: V-100

EQUIPMENT NAME: 6-13 Sep. Ser #8

IN SERVICE: ☒ OUT OF SERVICE: ☐

SERVICE ENVIRONMENT: Sweet

MANUFACTURER: NVSCO

MANUFACTURE DATE: 2004

MANWAY: ☐ YES ☒ NO

MAX. DESIGN WORKING PRESSURE: 1440 PSI / KPA

MAX. DESIGN OPERATING TEMPERATURE: 100 °F / °C

DRAWING #: _____

DATE DATA GATHERED: OCT 18/04